

**In the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Listing of claims:

1. (currently amended) A method of treating Down Syndrome, said method comprising:

treating a person having Down Syndrome with an effective amount of a compound selected from the group consisting of phenserine, (+)9-N-phenylcarbinol ~~eseroline~~eseroline, a pharmaceutically acceptable salt thereof, and combinations thereof.

2. (previously presented) The method according to claim 1, wherein the compound is a pharmaceutically acceptable salt of phenserine selected from the group consisting of the tartrate, phosphate, and fumarate salt.

3. (previously presented) The method according to claim 1, wherein the effective amount ranges from 0.001 gram to 1 gram per kilogram of body mass of the person.

4. (currently amended) The method according to claim 1, wherein the compound comprises (+) 9-N-phenylcarbinol ~~eseroline~~eseroline and pharmaceutically acceptable salts thereof.

5. (previously presented) The method according to claim 1, wherein the compound comprises phenserine or pharmaceutically acceptable salts thereof.

6. (currently amended) A method for treating Down Syndrome in a person, said method comprising:

administering a pharmaceutical composition to the person comprising an effective amount of phenserine, (+)9-N-phenylcarbinol ~~eseroline~~eseroline, pharmaceutically acceptable salts thereof, or combinations thereof as the effective ingredient.

7. (previously presented) The method according to claim 6, wherein the pharmaceutically acceptable salt is selected from the group consisting of the tartrate, phosphate, and fumarate salt.

8. (previously presented) The method according to claim 7, wherein the effective amount ranges from 0.001 gram to 1 gram per kilogram of body weight of the person.

9. (currently amended) The method according to claim 6, wherein the pharmaceutical composition compound comprises (+)9-N-phenylcarbinol ~~eseroline~~eseroline and pharmaceutically acceptable salts thereof.

10. (previously presented) The method according to claim 6, wherein the pharmaceutical composition comprises phenserine and pharmaceutically acceptable salts thereof.

11-20. (cancelled)